

# BBG 6 A

Blackburst, Color Bars, and Audio Generator



## FEATURES

- **Broadcast quality blackburst reference signals** — Six outputs on female BNC connectors for creating blackburst reference signals to feed into genlockable devices.
- **Broadcast quality SMPTE color bars for NTSC and full-field 8-color bars for PAL** — Two of the blackburst outputs also provide standard SMPTE color bars for NTSC and full-field 8-bars for PAL, selectable via DIP switch for easy troubleshooting and alignment.
- **Integrated 1 kHz audio tone generator** — Built-in audio generator offers 1 kHz, balanced or unbalanced output on captive screw connectors for simplified audio troubleshooting. The output level is switchable from +4 dBu to -10 dBV via DIP switch.
- **Selectable +4 dBu or -10 dBV audio output**
- **NTSC/PAL switchable**
- **Power indicator LED for easy troubleshooting**
- **1U, quarter rack width metal enclosure**
- **Rack, under-desk, and projector-mountable**
- **External universal power supply included**, part # 70-055-01 — Provides worldwide power compatibility

## DESCRIPTION

The Extron **BBG 6 A** Blackburst, Color Bars, and Audio Generator offers six broadcast quality, NTSC or PAL blackburst output signals, allowing a variety of video equipment to be genlocked to a common reference signal. The blackburst signal consists of three reference signal components: vertical sync, horizontal sync, and color burst. The first two outputs can also provide broadcast quality NTSC SMPTE Color Bars or PAL full-field Color Bars test patterns, selectable via a DIP switch. Additionally, the BBG 6 A includes a 1 kHz audio generator with balanced or unbalanced audio on captive screw connectors. Part of the VersaTools® line of products, the BBG 6 A is housed in a 1U, quarter rack width metal enclosure, making it ideal for installation in equipment racks as well as small spaces or portable field use.

The Vector scope measurement plots the broadcast quality Color Bars output of the BBG 6 A

APL = 40.8%  
System Line L 22 F1 Angle (deg) 0.0  
Gain x 1.000  
0.000 dB  
525 Line NTSC  
Setup 7.5%



Impedance.....	75 ohms
Sync level.....	40 IRE for NTSC, 43 IRE for PAL
Color burst level.....	40 IRE for NTSC, 43 IRE for PAL
Setup level.....	7.5 IRE (NTSC) or 0 IRE (PAL)
Tolerance for all levels.....	±3%
Sub carrier level.....	NTSC: 3.579545 ±3 Hz, PAL: 4.433618 ±3 Hz

### COLOR BARS OUTPUT

Number / Signal type.....	2 color bars, switchable, standard SMPTE bars for NTSC, full field 8-bar for PAL
Connectors.....	2 BNC female
Standards.....	NTSC 3.58, PAL
Impedance.....	75 ohms
Sync level.....	40 IRE for NTSC, 43 IRE for PAL
Color burst level.....	40 IRE for NTSC, 43 IRE for PAL
Setup level.....	NTSC, 7.5 IRE; PAL, 0 IRE
White level.....	100 IRE
Tolerance for all levels.....	±3%
Subcarrier levels.....	NTSC 3.579545 ±3 Hz, PAL 4.433618 ±3 Hz

### AUDIO OUTPUT

Number / Signal type.....	1 set (L and R) of stereo sine waves, balanced or unbalanced
Connectors.....	(1) 3.5 mm captive screw connector, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Signal level.....	Selectable: professional level, +4 dBu (1.23 V) balanced; or consumer level, -10 dBV (316 mV) unbalanced
THD.....	0.1%
Tolerance for all levels.....	±3%
Signal frequency.....	1 kHz

### GENERAL

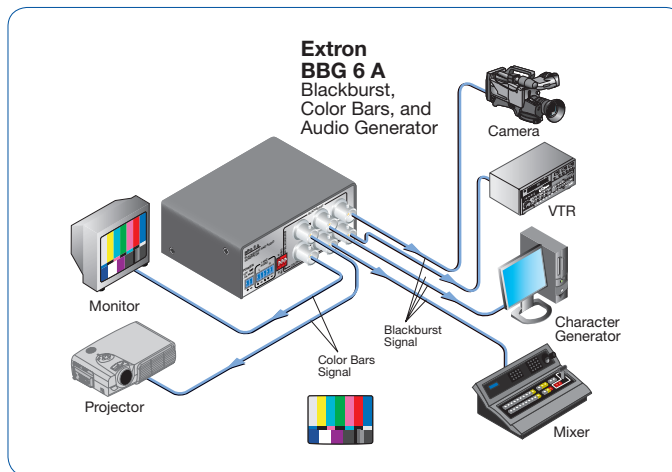
External power supply.....	100 VAC to 240 VAC, 50/60 Hz, 2.5 watts, external, to 12 VDC, 1 A, regulated power supply
Power input requirements.....	12 VDC, 0.2 A (max.)
Rack mount.....	Yes, with optional rack shelves (See optional accessories)
Enclosure type.....	Metal
Enclosure dimensions.....	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) 4.3 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors)
Product / Shipping weight.....	0.4 lbs (0.2 kg) / 3 lbs (2 kg)
Warranty.....	3 years parts and labor

Note: All nominal levels are at ±10%. Specifications are subject to change without notice.

## SPECIFICATIONS

### BLACKBURST OUTPUT

Number / Signal type.....	6 blackburst (two can be switched to color bars)
Connectors.....	6 BNC female
Standards.....	RS-170A standard for NTSC 3.58, CCIR 624-4 standard for PAL



## MODEL

<b>BBG 6 A</b>	Blackburst, Color Bars & Audio .....	<b>60-535-01</b>
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## OPTIONAL ACCESSORIES

MODEL DESCRIPTION	PAGE	PART #
RSU 129 1U 9.5" Deep Universal Rack Shelf Kit .....	page 819	60-190-01
RSF 123 1U 3.5" Deep VersaTools® Rack Shelf Kit .....	page 819	60-190-20
RSB 129 1U 9.5" Deep Basic Rack Shelf .....	page 820	60-604-01
RSB 123 1U 3.5" Deep Basic Rack Shelf .....	page 818	60-604-20
MBU 123 VersaTools® Mini Under-Desk Mount Kit .....	page 815	70-212-01